Party A Exhibit 10-8

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(54) Rotary-Type Encoder with Push Switch (57) [Abstract]

[Purpose] Relates to a rotary-type encoder with push switch used in a remotely controlled device, etc., such as a video tape recorder, for setting or operating various modes; and aims at providing a small (particularly in the height dimension), lightweight, and inexpensive rotary-type encoder with a push switch.

[Constitution] A contact plate 22 in which each contact is printed and burned on a heat-resistant resin film is bonded to a molded resin substrate to form a fixed contact substrate 21. The elastic sliding contact 23 of a rotary-type encoder part is directly mounted on an operation knob 30. A push switch part, also, is of a system for directly pushing a diaphragm-type, elastic moving contact 35 mounted on the fixed contact substrate 21, by means of an operating button 37. This enables a small and lightweight rotary-type encoder with push switch.

| 21 | Fixed contact substrate | 28 | Elastic leg with external catch |
|-----|-------------------------------|----|---------------------------------|
| 22 | Contact plate made of | 29 | Elastic leg with internal catch |
| | heat-resistant resin film | 30 | Annular knob |
| 23 | Arc-shaped fixed | 31 | Elastic sliding contact |
| | contact for encoder | 33 | Torsion coil spring |
| 24 | Fixed contact for push switch | 35 | Diaphragm-type, elastic |
| | Terminal part for | | moving contact |
| 25 | external connection | 37 | Operation button |
| | ` | 39 | Compression spring |
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